Basic Imagery Interpretation Report



NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

25X1

MOSCOW AIRFRAME PLANT FILI 23

STRATEGIC WEAPONS INDUSTRIAL FACILITIES USSR JANUARY 1969

Declass Review by NIMA / DoD

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	INSTALLATION OR ACTIVITY NAME
	Moskva Airframe Plant Fili 23 UR
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	ABSTRACT
	Moskva Airframe Plant Fili 23 is one of the largest airframe plants in the Soviet Unio and one of the principal aerospace installations located in the Moscow area. Plant 23 has been actively engaged in aircraft production
25X1B	Production has included both heavy bombers and large helicopters
25X1D 25X1D 25X1D	The total floorspace of Plant 23 increased from approximately 2.3 million square feet in to almost 3 million square feet and amounted to approximately 4.7 million square feet
	INTRODUCTION
25X1A 25X1A	Moscow Airframe Plant 23 is located on the west bank of the Moscow River (Figure 1) approximately 4.5 nautical miles (nm) west of the Kremlin. It is situated along the south side of Moscow/Fili Airfield Moscow Airframe Plant 30 is located 2.5 nm northeast of Plant 23.
25X1A 25X1D 25X1D	Airframe Plant 23 was built prior to World War II and was only lightly damaged as a result of aerial bombardment during the war. The reconstruction of damaged buildings and the completion of several large buildings first seen under construction had been accomplished Plant 23 has developed into one of the largest airframe plants in the Soviet Union. Plant 23 has been actively involved in aircraft
25X1D	production
	Moscow/Fili Aircraft serves primarily as a test and flyaway field. It has a serviceable concrete runway measuring approximately 4,600 by 290 feet and oriented in a west-southwest/east-northeast direction. The relatively short runway probably would not permit some of the aircraft testing usually conducted at an airframe plant; any potential extension

of the runway is restricted at both ends by the Moscow River. The runway has been present since World War II, and it is now in a state of deterioration and will need major repairs if it is to continue as a test and flyaway field.

Related Installations

The Soviet aerospace industry has its largest concentration of installations in the Moscow area. All of the major aerospace installations in the general vicinity of Moscow have been listed in a recent report; 1/ many of these could be associated with Airframe Plant 23. A number of the aerospace and/or missile installations located in the suburbs of Moscow are annotated on the location map (Figure 1).

BASIC DESCRIPTION

Physical Features

Major facilities comprised in Airframe Plant 23 (Figures 2 and 3) are assembly buildings, shop buildings, administration and engineering buildings, and warehouses. A 25X1D

large number of small utility, support, and miscellaneous buildings are scattered throughout the plant area, which encompasses approximately 450 acres including the adjacent airfield. Functional descriptions, dimensions, and construction chronology of these facilities are presented in Table 1.

The present floorspace of Plant 23 totals slightly over 4.7 million square feet, more than twice the amount of floorspace contained by the plant The following tabulation shows the functional distribution of current floorspace at Plant 23:

Functional Description	Floorspace (sq 11)
Assembly bldgs	351,950
Assembly and shop bldgs	2,407,625
Shop bldgs	977,700
Admin and engineering bldgs	605,225
Warehouses	202,400
Utility, support, and miscellaneous bldgs	189,275
• • •	4,734,175

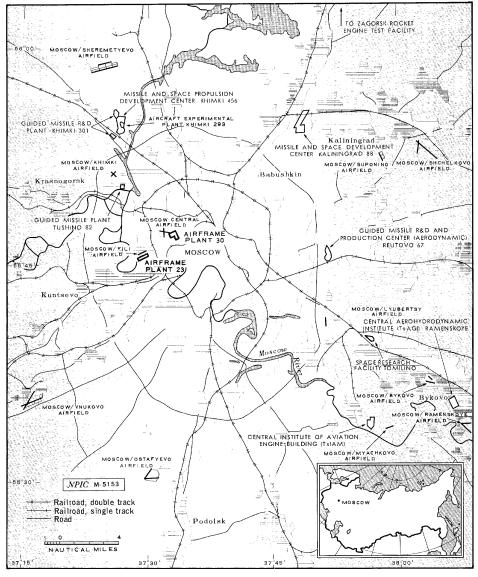


FIGURE 1. LOCATION MAP.

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Fable 1. Structures in Moscow Airframe Plant 23 (Item numbers keyed to Figure 3)

Item Probable Function Roof Cover (sq ft) Floorspace (sq ft) Dimensions (ft) Length Width Height Dimensions (ft) Length Width Height Floorspace (sq ft) Comments Utility bldg Pumphouse serving 2 large (70 ft diam) prob water tanks 165 30 60 Warehouse 61 Warehouse 62 Shop bidg 63, 64 Warehouses (2) 65 Warehouse 66 U/I bidg 67 Steam plant 13,200 7,200 4,200 10,600 6,075 Irreg 10,575 4,200 4,025 4,200 82,850 1,243,950 35 -- 35 -- 2 & 4 stories 120 115 120 45 120 35 Irreg 2 & 4 Irreg 910 335 50 Expanded 3 stories 40 3 stories 85 90 200 145 200 160 175 100 590 590 Annia & engineering acction
Medica & engineering acction
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Shop bldg
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Shop bldg 31,675 10,225 6,750 17,500 25 25 1 story 20 2 stories 75 Irreg 75 Irreg 15 350 17,250 Irreg 125 35 2 stories 40 20 110 51,700 55,000 Shop bldg

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Shop section

Unity bldgs (2)

Warn-housen

Warn-house

W 3,675 3,600 41,100 38,075 3,675 3,600 41,100 45,675 2 stories 30 Irreg 50 170 30 30 53.875 68,875 reg irreg Irreg 270 30 reg 60 74,800 80,800 2 stories 2 stories 35 25 2 stories 142,500 Motor pool shop Irreg Irreg 290 480 480 480 290 13,200 16,800 Motor pool shop 16,425 13,750 3,300 4,375 10,250 6,075 18,450 4,200 9,700 5,600 4,200 9,700 5,600 105 150 7,875 28,850 7,875 83,300 226,625 6,600 13,000 6,600 13,000 Admin & engineering bldg Engineering & lab bldg Admin section Engineering & lab section Admin section Irreg Irreg 140 20 180 65 295 165 39,000 63,175 156,000 101,075 2 stories 4 stories 50 Various 17,250 Currently being expanded Rail served 17,250 20,350 5,400 5,175 20,350 5,400 5,175 Shop bldg Warehouse Utility bldg U/I bldg Shop bldg Utility bldg Warehouse 80,600 87,800 For detailed dimensions & description see inset to Fig 3 & text, respectively 3,500 4,725 5,200 6,000 4,375 5,850 264,150 Various

530 480 30
480 30
480 30
480 470
235 30
240 155
240 29
215 170
170 40
180 70
140 40 105 130 96 97 98 98 8 Rail served 2 stories 2 stories 2 stories 75 40 36,550 43,350 13,300 5,600 13,300 5,600 31,850 3,600 114,900 31,850 3,600 132,500 4,645,775 220 100 105 160 530 4,000 5,775 6,400 31,800 Unnumbered bldgs 88,400 88,400 4,734,175 Prob canteen Totals 3,914,575

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	Approved For ROPeaSe 200570	6/08 : CIA-RDP78T04563A000200010015-9	
25X1D 25X1D	one of the most significant facilities loss building is divided into five parts, designst Sections A, B, and C were constructed and E were added and probably contain administration and 170 by 20 feet respectively. Section B is a by 160 feet by 40 feet high. Section C is approximately 180 by 135 feet by 85 feet	checkout building (Item 92, Figure 3) is considered cated at Plant 23. For descriptive purposes this ated sections A, B, C, D, and E (inset to Figure 3). Industrial and sections D Sections A and E are two stories high dengineering office space; they measure 190 and an assembly section measuring approximately 190 is an assembly and checkout section measuring et high, and Section D is also an assembly and the story of the 110 forther 125 forther 1	<u>J</u>
25X1C	function of this building is unknown; how missiles or large missile components, such Chronological Development When first observed on	tely 170 by 110 feet by 125 feet high. The exact ever, it could be used for assembly and testing of as fuel and oxidizer tanks. photography, Airframe Plant 23 shop buildings, administration and engineering	
25X1D	buildings, and warehouses, with a total fl Most of these buildings are still in use	loorspace of approximately 2.3 million square feet. today; however, many of them have undergone ion. Two shop buildings (Items 18 and 19) and a	
25X1D			
25X1D	There is	the photographic coverage of Plant 23, between	
25X1D		imately 630,000 square feet of floorspace were completion of those facilities first seen under	
25X1D	construction and the add	ition of a large assembly and shop building (Item	•
25X1D		s new floorspace. A large four-story administration observed in an early stage of construction and a 81) was in a midstage of construction	٦
25X1D			┙.
25X1D 1	650,000 square feet of floorspace had been principally from the completion of two p and shop building (Item 81) and the larg 90), and the addition of two new ones, an	as obtained. By the latter date, approximately added to the plant. This new floorspace resulted previously observed structures, the large assembly ge administration and engineering building (Item engineering and laboratory building (Item 91) and g (Item 92). Expansion of some of the pre-existing	
25X1D		•	
25X1D 25X1D		of floorspace were added to the plant cant of this new construction included the erection tem 35) and the expansion of three major facilities	
25X1D	(Item 75), a shop building (Item 98), and building (Item 58) accounted for most of t The most recent construction activit new small buildings (Items 22, 34, 39, 44	ty observed at the plant is the construction of five a, and 66) and the expansion of two shop buildings es and additions are all in the early stages of	
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Production Activity
25X1D Airframa Plant

Airframe Plant 23 has been actively engaged in aircraft production

Production has included the BISON (M-4) heavy bomber and prototypes of the BOUNDER, a heavy bomber which never entered serial production. HOOK (MI-6) heavy helicopters were first observed at the plant and varying numbers of HOOK were observed there has been an almost complete absence of HOOK at Plant 23, indicating that they have been phased out of production.

access to one of the final assembly bays has been blocked by construction of a small building, and a rail spur has been constructed into the other final assembly bay. In addition, another building (Item 44) is under construction on the taxiway which connects the final assembly building with the adjacent airfield. The completion of Item 44 will impede movement of aircraft to and from the plant area. This indicates that if Plant 23 is going to continue production of aircraft, final assembly would take place at another

A radar assembly and checkout area (Item 38) is located at the adjacent airfield, although it probably is not connected with production at Plant 23.

There are a large number of circular and/or ring-shaped objects located throughout the plant area. These objects cannot be identified, but they may be associated with production.

Essential Services

installation in the Moscow area.

Plant 23 is served by two main rail spurs which can easily be connected with all of the major Moscow rail systems. These rail spurs enter the east side of the plant; once inside the plant area they subdivide to form an extensive network of short spurs. Major facilities served by individual rail spurs include two large assembly and shop buildings (Items 9 and 35) and the steam plant (Item 67). Rolling stock observed at Plant 23 on photography of included 25 long rail cars 4 long flatcars (approximately 65 by 10 feet), 6 standard-size flatcars, 4 boxcars, and 4 switch engines. The interpretability of photographic coverage does not permit identification of rolling stock by type.

Transportation services in addition to rail spurs and the adjacent airfield include a network of good all-weather roads and the nearby Moscow River which is a major navigable waterway.

Electric power is received from an unidentified source outside the plant, and the onsite steam plant (Item 67) supplies heat.

Security

Although there are no visible stringent security measures, the entire area occupied by the plant and airfield is surrounded by a wall and/or fence. The Moscow River forms a natural security barrier on three sides of the plant and airfield. The main entrance to the plant is adjacent to an administration building (Item 8). No guard towers are observed; however, all accesses have control points.

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REFERENCES (Continued)

MAPS OR CHARTS

ACIC. US Air Target Chart, Series 200, Sheet 0167-5, Scale 1:200,000

DOCUMENT

1. NPIC. Index of Aerospace Installations in the Moscow Area, Feb 68 (TOP SECRET

REQUIREMENT

COMIREX. 369-69 NPIC Project 210475